	Application No. Applicant(s)			
Notice of Allowability	09/955,137	NOMURA, KAZUS	NOMURA, KAZUSHI	
	Examiner	Art Unit		
	Peter J Macchiarolo	2879	And	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is su	this application. If not include nication will be mailed in due	ded e course. THIS	
1. This communication is responsive to <u>06/04/2004</u> .				
2. A The allowed claim(s) is/are 1-10 and 16-35.				
3. The drawings filed on 19 September 2001 are accepted by	the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have Certified copies not received: PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the priority documents have Applicant has THREE MONTHS FROM THE "MAILING DATE" on the priority documents have 	been received. been received in Application cuments have been received of this communication to file	n No in this national stage applic		
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXA		NOTICE OF	
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's	t be submitted. on's Patent Drawing Review	(PTO-948) attached		
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			ne back) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			Note the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 06/24/2004 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Su Paper No./N 8), 7. ☐ Examiner's A	ormal Patent Application (PT Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Al	·	

DETAILED ACTION

Acknowledged Receipt

1. Receipt is acknowledged of the amendment to the claims, filed 06/04/2004, and the Information Disclosure Statement, filed 06/24/2004. The above have been entered and considered.

Allowable Subject Matter

- 2. Claims 1-10, and 16-35 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter:
- 4. The prior art of record to motivates or discloses the limitations of claim 1, except that an electron emitting film attached to the second electrode and insulated from the first electrode, along with the other limitations of the claim.
- 5. The prior art of record to motivates or discloses the limitations of claims 10 and 31, except that each carbon fiber has a plurality of graphenes which are stacked so as not to be parallel to an axis direction of the fiber, along with the other limitations of the claim.
- 6. The prior art of record to motivates or discloses the limitations of claims 20 and 26, except that a first power source for applying a necessary electric field, to cause an electron emission from the plurality of carbon fibers, at least between the anode and the second electrode; and a second power source for applying a necessary electric field, to

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stop the electron emission from the plurality of carbon fibers, between the first electrode and the second electrode, along with the other limitations of the claim.

- 7. Claims 2-9, 16-19, 21-25, 27-30, 32-35 are allowable due to their dependency.
- 8. Any comments considered necessary by the Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of reasons for Allowance."

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. USPN 6274881 to Akiyama et al published August 14, 2001 discloses an electron emitting apparatus similar to claim 1, with a first electrode 102, a second electrode 106, an insulating film 105, and anode 108. However, after careful consideration, films 103 and 104 do not constitute Applicant's "electron-emitting film."
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Macchiarolo whose telephone number is (571) 272-2375. The examiner can normally be reached on 8:30 5:00, M-F.
- 12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D Patel can be reached on (571) 272-2475. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Williams Primary Examiner A.U. 2879